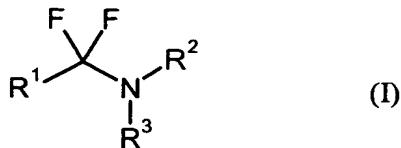


WHAT IS CLAIMED IS:

1. Process for preparing compounds of the formula (I)



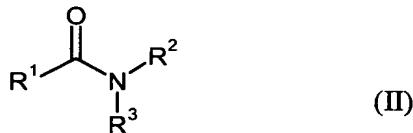
where

5 R¹ represents hydrogen, C₁-C₁₂-alkyl, [(C₂-C₁₂-alkylene)-O]_n(C₁-C₁₂-alkyl) where n = 1 to 5, C₃-C₁₄-aryl, C₄-C₁₅-arylalkyl or NR⁴R⁵, where R⁴ and R⁵ each independently of one another represent C₁-C₈-alkyl or NR⁴R⁵ as a whole represents a 4 to 7-membered cyclic radical having a total of 3 to 16 carbon atoms and

10 R² and R³ each independently of one another represent C₁-C₁₂-alkyl, C₃-C₁₄-aryl or C₄-C₁₅-arylalkyl, or together are part of a cyclic radical having a total of 3 to 16 carbon atoms, or

 R¹ and R² and/or R³ are a cyclic radical having a total of 3 to 16 carbon atoms,

15 comprising reacting compounds of the formula (II)



where

R¹, R² and R³ have the meanings given above

in the presence of oxalyl fluoride and/or difluorophosgene.

2. Process according to Claim 1, characterized in that the reaction takes place in the presence of organic solvent.
3. Process according to Claim 1, characterized in that R¹ represents hydrogen, C₁-C₁₂-alkyl or C₃-C₆-aryl.
- 5 4. Process according to Claim 1, characterized in that the radicals R² and R³ each independently of one another represent C₁-C₈-alkyl, or NR²R³, which as a whole, represents N-morpholinyl, N-methyl-1,4-piperazin-N-yl, or R¹CF₂R², which as a whole, represents 2,2-difluoroimidazoliny, 2,2-difluoropyrrolidiny, 2,2-difluoropiperidiny or [2,2,2]-2,2,5,5-tetrafluoro-10 1,4-diazabicyclooctane or [2,2,2]-2,2,6,6-tetrafluoro-1,4-diazabicyclooctane, in which case the radicals are optionally monosubstituted or disubstituted by C₁-C₄-alkyl.
- 15 5. Process according to Claim 1, characterized in that the compounds of the formula (I) prepared are: 1,1-difluoromethyl-N,N-dimethylamine, 1,1-difluoromethyl-N,N-diethylamine, 1,1-difluoromethyl-N,N-diisopropylamine, 1,1-difluoro-N,N-2-trimethyl-1-propanamine, 1,1-difluoro-N,N-2,2-tetramethyl-1-propanamine, N,N-diethyl- α , α -difluoro-2,2-dimethyl-1-propanamine, N-(1,1-difluoromethyl)morpholine, 1,1-difluoro-N,N-dimethylphenylmethanamine, N,N-diethyl- α , α -difluoro-3-pyridylmethanamine, N,N-diethyl- α , α -difluoro-2-pyridylmethanamine, diethyl- α , α -difluoro-(4-chlorophenyl)methanamine, N,N-diisopropyl- α , α -difluorophenylmethanamine, N,N-diethyl- α , α -difluorophenylmethanamine, N,N-dimethyl- α , α -difluorophenylmethanamine, 2,2-difluoro-1,3-dimethylimidazolidin, 2,2-difluoro-1,3,3-trimethylpyrrolidine, [2,2,2]-2,2,5,5-tetrafluoro-3,3,6,6-tetramethyl-1,4-diazabicyclooctane and [2,2,2]-2,2,6,6-tetrafluoro-3,3,5,5-tetramethyl-1,4-diazabicyclooctane.
- 20 6. Process according to Claim 1, characterized in that the molar ratio of oxalyl fluoride to compounds of the formula (II) is 0.8:1 to 20:1

7. Process according to Claim 1, characterized in that the reaction temperature is -50°C to 100°C.
8. Process according to Claim 1, characterized in that the reaction pressure is 0.8 to 20 bar.
- 5 9. Process according to Claim 1, further reacting the resulting compounds of formula (I) with
 - at least one aprotic, tertiary amine which does not contain fluorine atoms in the α position to the nitrogen and/or at least one N-heteroaromatic compound and
 - 10 ● hydrogen fluoride.
10. Process according to Claim 9, characterized in that the molar ratio of aprotic tertiary amine and/or N-heteroaromatic compounds to compounds of the formula (I) is 0.1:1 to 20:1 and the molar ratio of hydrogen fluoride to aprotic tertiary amine is 0.2:1 to 10:1.
- 15 11. A process for preparing fluorine compounds from corresponding hydroxyl compounds from the corresponding carbonyl compounds comprising providing compounds which have been prepared according to Claim 1.
12. A process for preparing geminal difluorocompounds from the corresponding carbonyl compounds comprising providing compounds which have been prepared according to Claim 1.
- 20 13. The process according to Claim 11, characterized in that the fluorine compounds are those which are used for preparing agrochemicals, drugs and liquid crystals.

14. The process according to Claim 12, characterized in that the fluorine compounds are those which are used for preparing agrochemicals, drugs and liquid crystals.
15. A process for preparing fluorine compounds from corresponding hydroxyl compounds from the corresponding carbonyl compounds comprising providing compounds which have been prepared according to Claim 9 .
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16. A process for preparing geminal difluorocompounds from the corresponding carbonyl compounds comprising providing compounds which have been prepared according to Claim 9.
- 10 17. The process according to Claim 14, characterized in that the fluorine compounds are those which are used for preparing agrochemicals, drugs and liquid crystals.